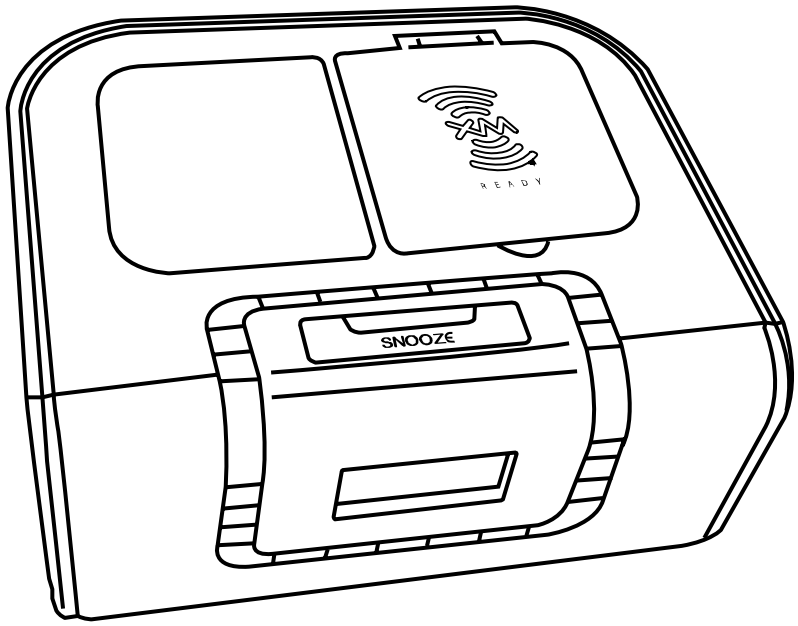
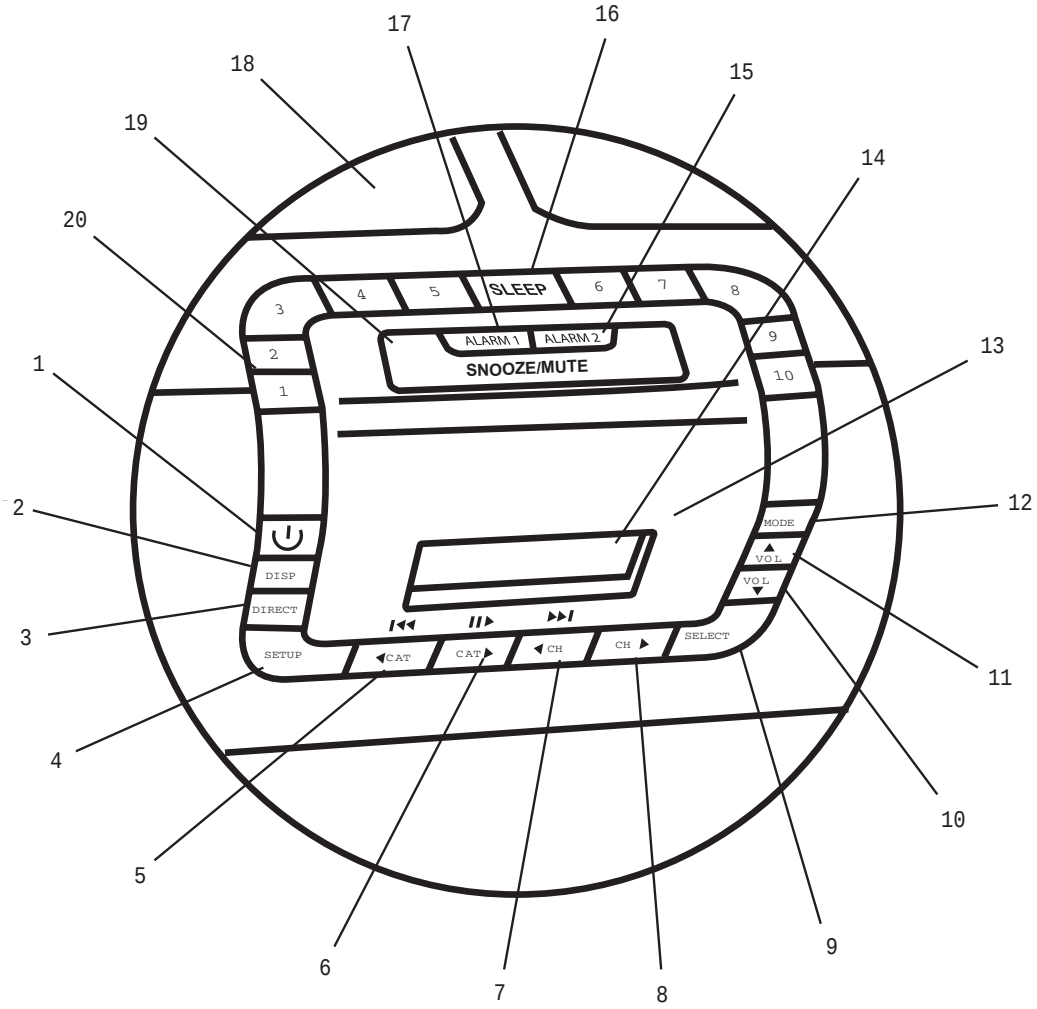
AM/FM RADIO WITH XM RADIO AND iPod CAPABILITY

Model XM50



Owner's Manual

1.0 Function of Controls and Indicators



1	Power On/Off Button	11.	▲ VOL (Up) Button
2	DISP (Display) Button	12.	MODE Button
3	DIRECT Button	13.	Infrared (IR) Receiver Window
4	SETUP Button	14.	LCD Display
5	◀ CAT (Down) / iPod Fast Reverse Button	15.	ALARM 2 Button
6	▶ CAT (Up) / iPod Pause/Play Button	16.	SLEEP Button
7	◀ CH (Down) / iPod Fast Forward Button	17	ALARM 1 Button
8	▶ CH (Up) Button	18.	Speaker
9	SELECT Button	19.	SNOOZE/MUTE Button
10	▼ VOL (Down) Button	20.	Number Buttons (1-10)

2.0 Unit Description

2.1 Power On/Off Button (⏻)

When this button is pressed, power is applied to the radio circuits from the standby mode, and the unit enters into the play mode (XM/FM/AM/AUX/iPod). When pressed again during any play mode, power is removed from the radio circuits and the unit reverts to the standby mode. The default play mode is XM.

Press this button to enter into play mode from standby mode

Press this button to return to standby mode from any play mode

2.2 MUTE Button

When pressed during normal play mode (XM/FM/AM/AUX/iPod), the audio output is muted or disabled as indicated by the speaker icon in the upper right corner of the display screen. When pressed again, the mute function is canceled and audio is restored.

Press this button to mute play mode audio

Press this button again to cancel the mute function

2.3 DIRECT Button (Preset)

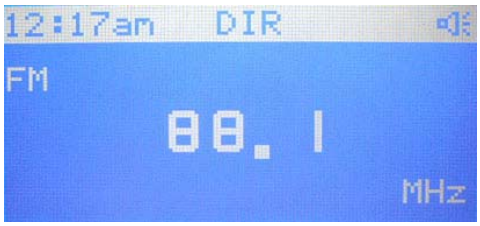
During normal operation, direct selection of the radio frequency in the XM, FM or AM radio modes is possible. To change FM or AM frequency, use the CH Up/Down buttons or directly enter desired frequency using the number (1-10) buttons. To search radio frequencies in FM/AM modes, press the CAT Up/Down buttons. In XM mode, the CAT Up/Down buttons provide a jump to the various broadcast categories or genres. When the DIRECT button is pressed, Direct (DIR) disappears on the display, and is replaced with preset bank A, B or C. Each bank is capable of storing up to 10 radio frequencies in memory. The frequency is stored by pressing number buttons 1-10, thus permitting memory storage of 30 frequencies. When this button is pressed and held, the list of stored frequencies in the current band can be viewed.

2.3.1 FM/AM Radio Ranges

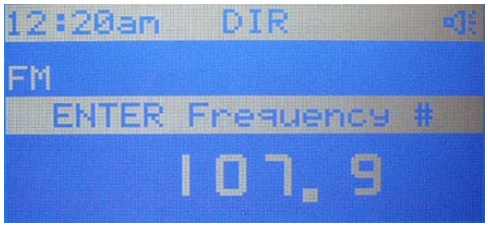
In DIRECT mode, the FM radio band ranges from 87.5 to 107.9MHz, while the AM band ranges from 530 to 1710kHz.

2.3.2 Changing FM/AM Radio Frequencies

FM and AM radio frequencies can be changed by using the CH Up/Down buttons; each button press changes the frequency in 100kHz steps. Pressing the CAT Up or Down button enters the frequency search mode.

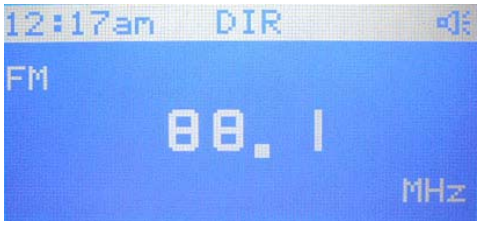


Press the CH +/- buttons to change frequency in 100kHz steps; press select



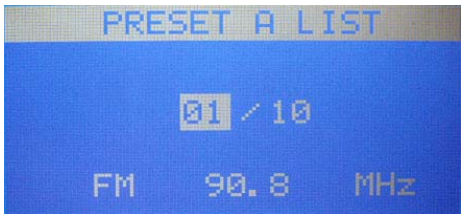
OR

Press the number buttons to directly enter frequency; press select

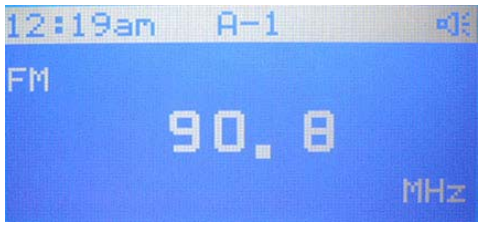


Press the CAT +/- buttons to auto search for desired FM or AM frequency; press select

Press and hold number button over 1 second to store station frequency in memory bank A



Press and hold DIRECT button over 1 second to display list of stored frequencies in current bank



2.4 SETUP Button

When MENU is pressed, a list of menu items appears on the display. Select the desired item using the Channel Up (◀ **CH**) and Channel Down (**CH** ▶) buttons to highlight the item; then press the SELECT button to enable adjustment of the selected parameter.

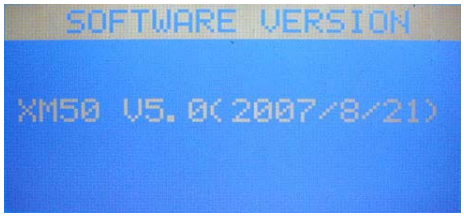
Setup Item: -SOFTWARE VERSION

FACTORY DEFAULT
LCD SETTING
AUDIO SETTING
XM SETTING
CLOCK SETTING

2.4.1 SOFTWARE VERSION: When selected, this item displays the software version and XM version installed in this unit.

During any play mode, press the setup button; then press CH+/- to highlight this item

Then press select



2.4.2 FACTORY DEFAULT: When selected, this item returns all user presets to factory default parameters.

During any play mode, press the setup button; then press CH+/- to highlight this item

Press CH+/- to highlight this item; then press select

2.4.3 LCD DISPLAY SETTING: When selected, this item enables adjustment of the display contrast within the range 0~10. The factory default setting is 3.

During any play mode, press the setup button; then press CH+/- to highlight this item and press select

Press CH+/- to highlight this item; then press select. Adjust contrast range using CH+/-

2.4.4 AUDIO SETTING: When selected, this item enables adjustment of the BASS and TREBLE parameters, each within a range of -5 to +5, and also enables activation of SURROUND sound (ON/OFF).

During any play mode, press the setup button; then press CH+/- to highlight this item

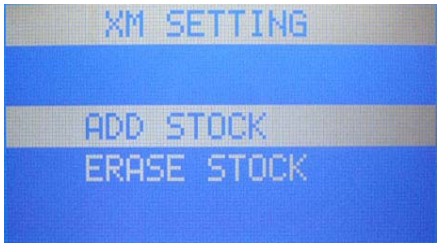
Then press select. Adjust BASS/TREBLE range and SURROUND SOUND ON/OFF using CH+/-

2.4.5 XM SETTING: When selected, this item provides the capability of setting up XM options for display of information such as sports teams, current scores, etc., or stock information. Press SETUP to access the menu options display; scroll up/down to XM SETTING using the CH +\- buttons and press SELECT.

During any play mode, press the setup button; then press CH+/- to highlight this item

Press select button for Info Extra

Press select button for Stock Ticker



2.4.6 CLOCK SETTING: When selected, this item sets the current time in either the 12 or 24 hour system.

During any play mode, press the setup button; then press CH+/- to highlight this item

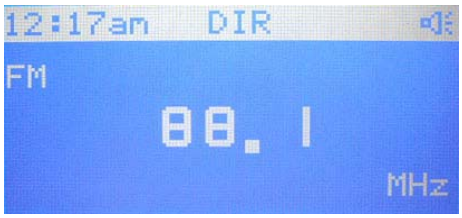
Then press select

2.5 ◀ CAT/CAT ▶ Buttons

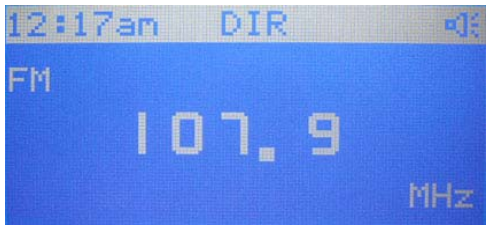
In AM and FM modes, these buttons enable up/down radio station auto-search. In XM mode, the category buttons enable category search by skipping genres to access a desired category with its associated menu.

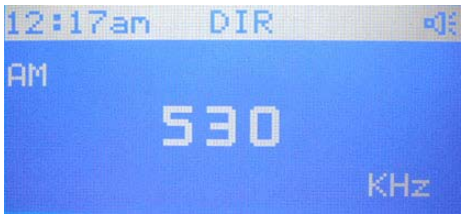
2.6 ◀ CH/CH ▶ Buttons

These buttons enable frequency selection up or down in the XM, FM and AM radio modes. In FM and AM mode, each press of the channel button(s) provides a frequency step of 100kHz/10kHz. In XM mode, radio station frequency is selected up or down or, when in station preset, provides up or down frequency selection from the frequency items stored in any of the preset memory banks.

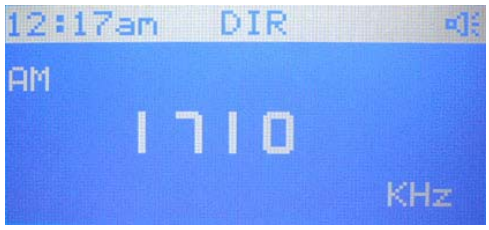


In FM mode, press CH+/- to change channel frequency in 100kHz steps.





In AM mode, press CH+/- to change channel frequency in 100kHz steps.



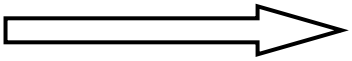
2.7 SELECT Button

This button provides selection of various menu and submenu items in the XM/FM/AM/AUX/iPod modes after the desired item has been highlighted using the CH+/- and/or CAT+/- buttons. During auto-search in the FM and AM modes, pressing the Select button cancels the search function.

2.8 ▼ VOL/VOL ▲ Buttons

These buttons are used to adjust the speaker volume in the XM/FM/AM/AUX/iPod modes within the range of 0~30. The factory default is at mid-range (15).

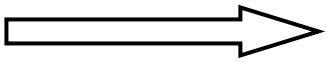
Press these buttons to adjust the output volume in any mode

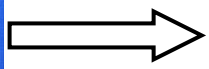


2.9 MODE Button

This button enables selection of one of five play modes in a sequential wrap-around format (XM/FM/AM/AUX/iPod).

Press this button in any play mode; the current mode is highlighted





Press the mode button again to select desired source; then press select

2.10 Infrared (IR) Receiver Window

This window detects the IR signal from the remote control to select operating modes and feature functions.

2.11 LCD Display

Displays operating modes, menus and other related information on the LCD screen.

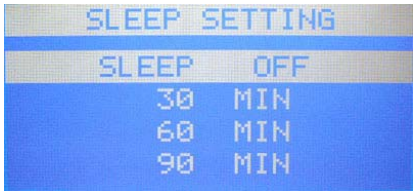
2.12 Speaker

Provides the audio output level as set by the ▼ VOL / VOL ▲ buttons.

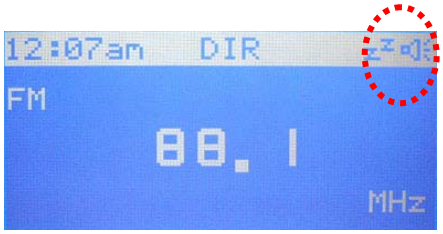
2.13 SLEEP Button

Press this button to set a sleep time of 30, 60 or 90 minutes; use the ◄ CH/CH ► buttons to scroll through and highlight the available sleep times, then press select. The radio will turn off automatically when the sleep time has expired.

Press this button in any play mode



Highlight the desired sleep time, then press select



2.14 Number Buttons 1-10

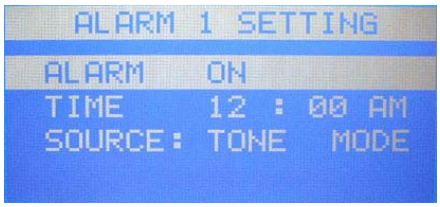
These buttons are used to directly input radio station frequency/channel number in XM, FM and AM modes. They are also used to store a desired frequency in memory when the station preset function is active.

2.15 ALARM1/ALARM2 Buttons

These buttons set the alarm function. Two kinds of alarms are provided: ALARM 1 can be set to (XM, FM, XM, IPOD or TONE MODE), while ALARM 2 can be set to (XM, FM, XM, IPOD or TONE MODE).

Press this button in any play mode

After pressing select, set time and start mode (XM, FM, XM, IPOD or TONE MODE)

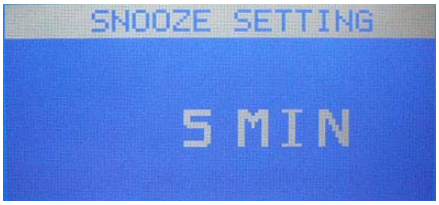


Activate alarm to ON and observe Bell icon on display

2.16 SNOOZE Button

This button sets the Snooze time between 1 and 20 minutes after the alarm sounds. When the alarm goes on with radio activation, press this button repeatedly to set Snooze time; each press advances the time in 1-minute increments.

Press the Snooze button in Alarm mode



3.0 iPod Docking Station

This station provides docking accommodations for an external iPod. When properly installed, iPod operation can be controlled using its associated remote control unit.

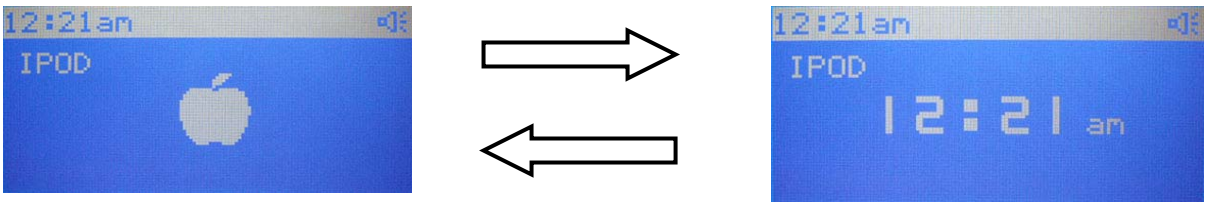
3.1 Using the iPod Dock

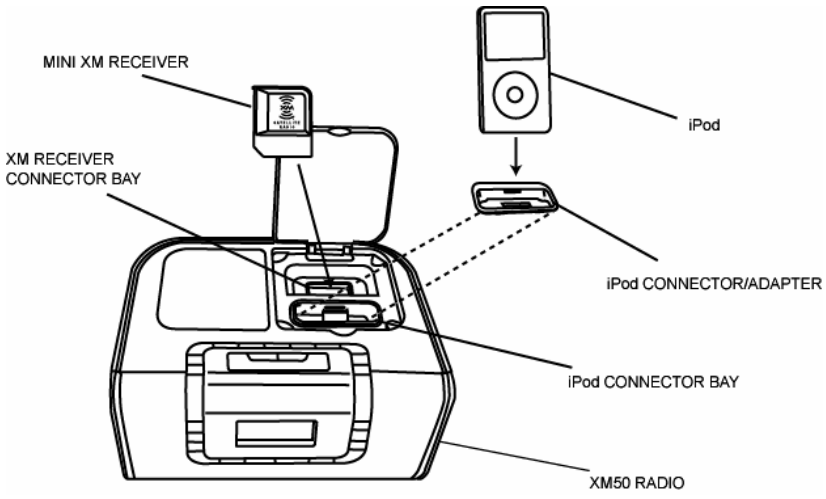
1. Swing up the protective cover door to access the iPod/XM receiver system connector bay.
2. Choose the compatible adapter/holder for your iPod model and install it in the bay.

Note: The XM50 comes equipped with an iPod adapter. Most iPods come with their own (original) adapters which can also be used if necessary.

3. Install the iPod carefully onto the iPod connector and press down lightly until the iPod bottoms into the recess. The iPod will be inclined slightly to the rear of the XM50.

4. Press the MODE button until iPod is highlighted; press select and observe the following display screens:





4.0 XM Docking Station

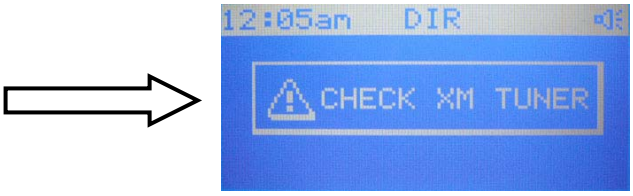
This station provides docking accommodations for an external mini XM receiver. (Refer to the figure on the previous page.)

4.1 Using the XM Docking Station

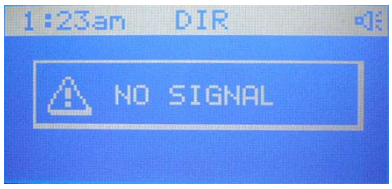
1. Swing up the protective cover door to access the iPod/XM receiver system connector bay.
2. Install the mini receiver carefully onto the receiver connector and press down lightly until the receiver bottoms into the recess.

   Note: The receiver can be inserted in one way only; the XM logo should face toward the front of the unit.
3. Press the MODE button until XM is highlighted; observe the following display screens:

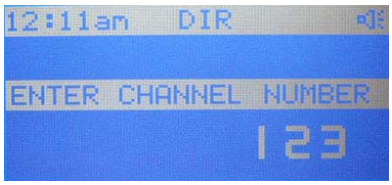
If a receiver fault occurs or if the receiver is improperly installed, the following message screen



If an XM antenna fault occurs, the following message screens may appear:

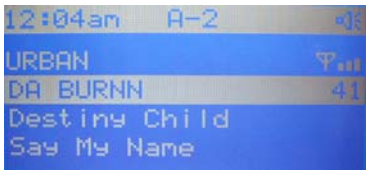


Use the number (1-10) buttons to directly select a channel



Select the Category using the CAT+/- buttons; select channel within the category using the CH+/- buttons

Press DIRECT to access memory bank A; enter channel number using the number buttons



Press and hold DIRECT to access preset channel list in memory bank A

5.0 Connector Functions

5.1 Beeper Connector

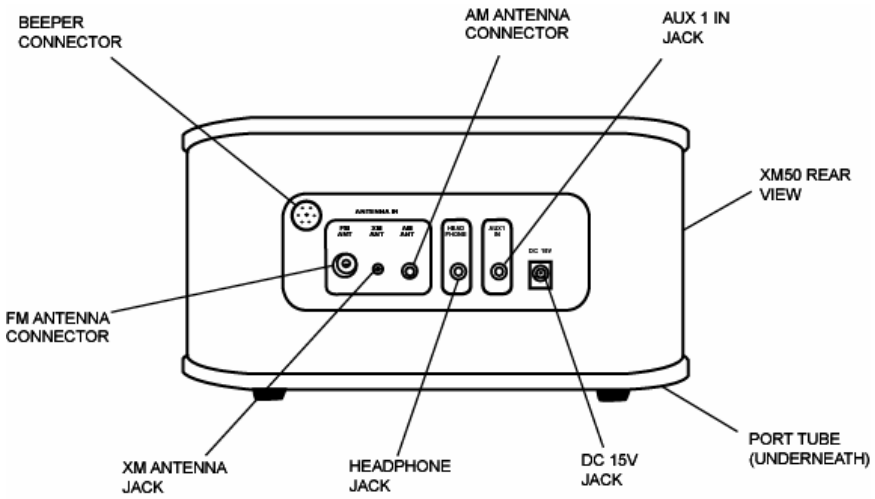
This connector provides for beeper alarm output.

5.2 DC IN Jack

This jack connects to the 15 V DC output of the AC/DC adapter supplied with the radio.

5.3 AUX IN Jack

This 3.5mm stereo headphone type jack accepts an external audio input from an MP3 player, CD player, etc.



5.4 Headphone Jack

This 3.5mm jack provides an audio output to external stereo headphones.

5.5 XM Antenna Connector

This jack provides input connection for the external SMB type XM antenna

5.6 AM Antenna Connector

This jack provides input 3.5mm connection for a stereo headphone type AM antenna

5.7 FM Antenna Jack

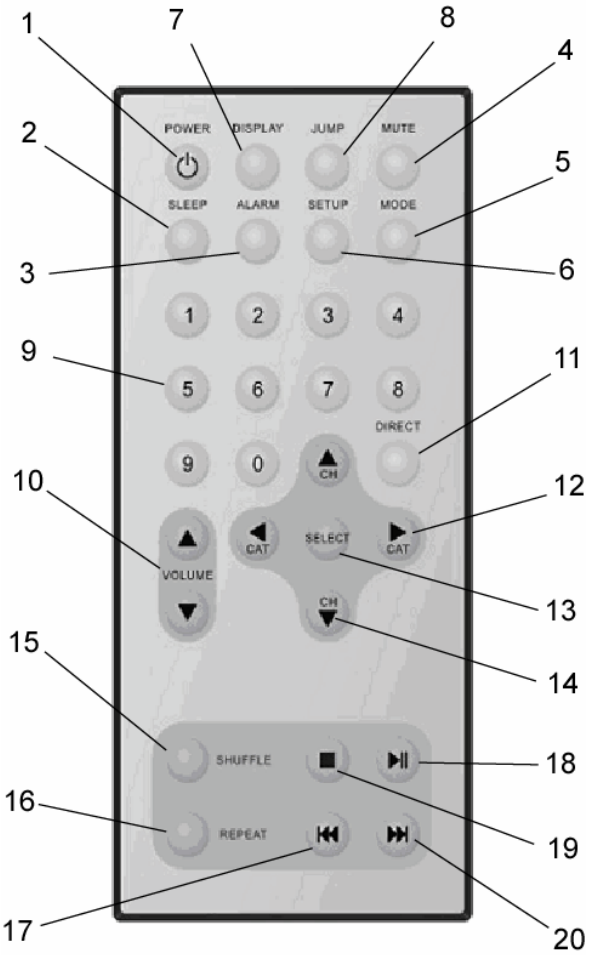
This connector provides input for a 75Ω F-connector type FM antenna.

5.8 Port Tube

This port on the bottom of the unit provides a heat exhaust for the speaker.

6.0 Remote Control

The remote control provides remote commands for both the radio and for an iPod, when installed in the iPod connector bay. Items 1-12 apply to the radio, while items 13-21 apply to iPod operation.



1. **POWER Button: S**ame function as radio power on-off.

2. **SLEEP Button:** Same function as radio; sets sleep time.

3. **ALARM Button: S**ame function as radio; sets alarm time.

4. **MUTE Button:** Same function as radio; sets audio mute on-off.

5. **MODE Button:** Same function as radio; switches play mode (XM/FM/AM/AUX/iPod).

6. **SETUP Button:** Same function as MENU on radio; displays menu items for parameter setup.

7. **DISPLAY Button:** In XM mode, sequential presses of this button initiate a display of the **STOCK** ticker info with scrolling artist/song title, the **EXTRAS** ticker (latest **INFO EXTRAS** or **STOCK TICKER** as selected from **MENU**) with scrolling artist/song title, and stationary **ARTIST/SONG** title info currently playing.

8. **JUMP Button:** In XM mode, pressing the **JUMP** button initiates an immediate return to the previous category, or genre, without having to press the **SELECT** button

9. **1-10 Button:** Same function as radio; used to directly input station frequency, and for selecting station number for memory storage.

10. **Volume ▲/▼ Button:** Same function as radio; used to control speaker volume.

11. **Direct Button:** Same function as radio; used to directly enter station frequency and to store frequencies in memory banks A, B or C for later recall by the user.

12. **CAT◀/▶ Buttons:** Same function as radio; used for station auto-search in AM and FM modes; provide category search in XM mode.

13. **SELECT Button:** Same function as radio; provides selection of highlighted screen items and also confirms input selections. In AM and FM modes, during station frequency auto-search, if search doesn't stop automatically, pressing SELECT halts the auto-search function.

14. **CH▲/▼ Buttons:** Same function as radio; used to select radio station frequency in radio mode, and also highlights menu

mode items for adjustment. Also used to control selection of iPod menu items.

15. SHUFFLE Button: Press this button to play iPod songs in a completely random manner.

16. REPEAT Button: When pressed once, current iPod song is repeated; when pressed a second time, current song is played continuously.

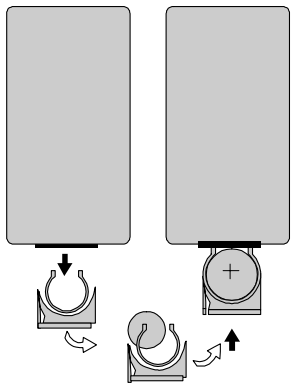
17. Fast Reverse (⏮) Button: Press this button to fast reverse through current playing song.

18. Play/Pause (⏯) Button: This button controls the play and pause functions of the iPod. When pressed during play mode, song play is paused; when pressed again, song play is resumed.

19. Stop (■) Button: Press this button to stop current song play.

20. Fast Forward (⏭) Button: Press this button to fast forward through the current playing song.

7.0 Initial Use* and Battery Replacement



*When purchased the remote control has a battery installed with a plastic insert to prevent battery discharge. Remove the plastic insert before attempting to use the remote.

1. Remove the battery holder. Refer to the drawing.

2. Insert the battery into the battery holder and insert the battery holder into the remote. Be sure to observe the correct polarity

3. For best results, aim the remote directly at the remote receiver window within 10 feet, and angles not exceeding 60 degrees.

4. The path between the remote control and remote sensor should be free of obstructions.

5. Under normal use the battery will last for approximately one year.

6. Remove the battery if the remote is not going to be used for a long time or during storage.

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